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August 2000 **Communications of the ACM**, Volume 43 Issue 8

Full text available:  [pdf\(2.62 MB\)](#)  [html\(49.24 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 A web-based synchronized multimedia system for distance education

Marco Rocchetti, Paola Salomoni

March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Full text available:  [pdf\(104.33 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: adaptive hypermedia, educational multimedia, synchronization, user modeling

7 Digital newspapers explore marketing on the Internet

Jonathan W. Palmer, Lars Bo Eriksen

September 1999 **Communications of the ACM**, Volume 42 Issue 9

Full text available:  [pdf\(398.18 KB\)](#)  [html\(34.48 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Resource management policies for e-commerce servers

Daniel A. Menas c, Rodrigo Fonseca, Virgilio A. F. Almeida, Marco A. Mendes

March 2000 **ACM SIGMETRICS Performance Evaluation Review**, Volume 27 Issue 4

Full text available:  [pdf\(913.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Quality of service of e-commerce sites has been usually managed by the allocation of resources such as processors, disks, and network bandwidth, and by tracking conventional performance metrics such as response time, throughput, and availability. However, the metrics that are of utmost importance to the management of a Web store are revenue and profits. Thus, resource management schemes for e-commerce servers should be geared towards optimizing business metrics as opposed to conventional perform ...

9 Enabling scalable online personalization on the Web

Debra VanderMeer, Kaushik Dutta, Anindya Datta, Krithi Ramamritham, Shamkant B. Navanthe

October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce**


Full text available:  [pdf\(491.69 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: dynamic profiling, e-commerce, online personalization, user behavior

10 Performance issues of enterprise level web proxies

Carlos Maltzahn, Kathy J. Richardson, Dirk Grunwald

June 1997 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems**, Volume 25 Issue 1


Full text available:  [pdf\(1.75 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Enterprise level web proxies relay world-wide web traffic between private networks and the

Internet. They improve security, save network bandwidth, and reduce network latency. While the performance of web proxies has been analyzed based on synthetic workloads, little is known about their performance on real workloads. In this paper we present a study of two web proxies (CERN and Squid) executing real workloads on Digital's Palo Alto Gateway. We demonstrate that the simple CERN proxy architecture ...

11 An intelligent distributed environment for active learning

August 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  [pdf\(116.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Active learning is an effective learning approach. In this article we present an intelligent agent-assisted environment for active learning to better support the student-centered, self-paced, and highly interactive learning approach. The environment uses the students learning-related profile such as learning style and background knowledge in selecting, organizing, and presenting learning material, and it adopts a new approach to course content organization and delivery based on smart instruct ...

Keywords: XML, active learning, multiagent system, web-based education

12 Electronic markets for learning: education brokerages on the Internet

Matti Hämäläinen, Andrew B. Whinston, Svetlana Vishik
June 1996 **Communications of the ACM**, Volume 39 Issue 6

Full text available:  [pdf\(778.05 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

13 Cluster-based scalable network services

Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  [pdf\(2.42 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Providing a differentiated quality of service in a World Wide Web server

Nikolaos Vasiliou, Hanan Lutfiyya
September 2000 **ACM SIGMETRICS Performance Evaluation Review**, Volume 28 Issue 2

Full text available:  [pdf\(648.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper presents a strategy of extending a Web server to be able to differentiate between requests in different classes. This is required because most Web servers are unable to do this by themselves. We present our strategy and its design along with some initial performance results.

15 Integrating and customizing heterogeneous e-commerce applications

Anat Eyal, Tova Milo
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1

Full text available:  [pdf\(286.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A broad spectrum of electronic commerce applications is currently available on the Web, providing services in almost any area one can think of. As the number and variety of such applications grow, more business opportunities emerge for providing new services based on the integration and customization of existing applications. (Web shopping malls and support

for comparative shopping are just a couple of examples.) Unfortunately, the diversity of applications in each specific domain and the dispar ...

Keywords: Application integration, Data integration, Electronic commerce

16 Internet television: Net makeover?

Dan Schiller

March 1997 **netWorker**, Volume 1 Issue 1

Full text available:  [html\(.00 bytes\)](#) Additional Information: [full citation](#), [index terms](#), [review](#)



17 An intelligent distributed environment for active learning

Yi Shang, Hongchi Shi, Su-Shing Chen

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available:  [pdf\(200.31 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: XML, active learning, multi-agent system, web-based education

18 A Web-based browsing and spatial analysis system for regional natural resource analysis and mapping

Ranga Raju Vatsavai, Thomas E. Burk, B. Tyler Wilson, Shashi Shekhar

November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems**

Full text available:  [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Proper use and monitoring of our land and environmental resources for quality of life and sustainable growth considerations require that timely and accurate data on land cover and land use be regularly available. Remote sensing is an appropriate tool and NOAA's 1-km AVHRR time series imagery has proven to be an invaluable input for regional level natural resource mapping and monitoring. Many previous efforts addressing the use of satellite-derived data for land cover and land use classificati ...

Keywords: Web GIS, client/server, load balancing



19 A strategic perspective of electronic democracy

Richard T. Watson, Bryan Mundy

January 2001 **Communications of the ACM**, Volume 44 Issue 1

Full text available:  [pdf\(259.53 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
 [html\(17.96 KB\)](#)



20 Meeting the needs (and preferences) of a diverse World Wide Web audience

Debbie Hysell

September 1998 **Proceedings of the 16th annual international conference on Computer documentation**

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Keywords: OCLC, Web customization, Web personalization, Web site management

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